ABSTRACT

A projection lens, which has a first group of lenses having a negative power and a second group of lenses having a positive power, sequentially arranged from an enlargement side to a reduction side, satisfying the following conditional expressions (1) through (4), and having a field angle of about 110° or more: (1) $25.0 < Fb$, (2) $F < 0.65H$, (3) $30F < |EP|$, and (4) $4F < T$, where Fb is an air-converted distance (mm) from a final surface at the reduction side of the lens to an image point, H is a maximum image height (mm) at the reduction side, F is a focal distance (mm) of the whole projection lens, EP is a exit pupil distance (mm), and T is an air-converted distance (mm) obtained by air-converting a gap between the first group of lenses and the second group of lenses.